

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: ASC-022CPC1

APPLICANT(S): Wu et al.

SERIAL NO.: 10/603,852

			U.S. F	PATENT DOCUMENTS	:		
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
OW	A1	4,010,045	03/01/1977	Ruehrwein			
	A2	5,013,681	05/07/1991	Godbey et al.			
	А3	5,166,084	11/24/1992	Pfiester			<del></del>
	A4	5,202,284	04/13/1993	Kamins et al.			
	<b>A</b> 5	5,207,864	05/04/1993	Bhat et al.			
	A6	5,208,182	05/04/1993	Narayan et al.			<del> </del>
	Α7	5,212,110	05/18/1993	Pfiester et al.	1		
	A8	5,221,413	06/22/1993	Brasen et al.			
	A9	5,285,086	02/08/1994	Fitzgerald		· · · · · · · · ·	F a
	A10	5,310,451	05/10/1994	Tejwani et al.			
	A11	5,346,848	09/13/1994	Grupen-Shemansky et al.			
	A12	5,374,564	12/20/1994	Bruel	1		
	A13	5,413,679	05/09/1995	Godbey			
	A14	5,442,205	08/15/1995	Brasen et al.			<u> </u>
	A15	5,461,243	10/24/1995	Ek et al.			
	A16	5,462,883	10/31/1995	Dennard et al.			
	A17	5,476,813	12/19/1995	Naruse			<del></del>
	A18	5,484,664	01/16/1996	Kitahara et al.			<del> </del>
	A19	5,523,592	06/04/1996	Nakagawa et al.			
	A20	5,534,713	07/09/1996	Ismail et al.			<del></del>
	A21	5,536,361	07/16/1996	Kondo et al.		·	
	A22	5,540,785	07/30/1996	Dennard et al.		-	
	A23	5,683,934	11/04/1997	Candelaria			
MOT.	A24	5,728,623	03/17/1998	Mori			<del></del>



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			U.S. F	PATENT DOCUMENT	S		
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2010	9 A25	5,759,898	06/02/1998	Ek et al.			
	A26	5,792,679	08/11/1998	Nakato			
	A27	5,877,070	03/02/1999	Goesele et al.		<u> </u>	
	A28	5,891,769	04/06/1999	Liaw et al.			
	A29	5,906,708	05/25/1999	Robinson et al.			
$\bot L \bot$	A30	5,906,951	05/25/1999	Chu et al.			
	A31	5,943,560	08/24/1999	Chang et al.	* 1		· · · · · · · · · · · · · · · · · · ·
	A32	5,966,622	10/12/1999	Levine et al.			
	A33	5,998,807	12/07/1999	Lustig et al.			
	A34	6,033,974	03/07/2000	Henley et al.			
	A35	6,033,995	03/07/2000	Muller			
	A36	6,059,895	05/09/2000	Chu et al.			<del></del>
	A37	6,074,919	06/13/2000	Gardner et al.			<del></del>
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	A40	6,107,653	08/22/2000	Fitzgerald			
	A41	6,111,267	08/29/2000	Fischer et al.			
	A42	6,117,750	09/12/2000	Bensahel et al.		, , ,	· · · · · · · · · · · · · · · · · · ·
	A43	6,153,495	11/28/2000	Kub et al.			
y .	A44	6,154,475	11/28/2000	Soref et al.			
	A45	6,162,688	12/19/2000	Gardner et al.		· · · · · · · · · · · · · · · · · · ·	<del></del>
	A46	6,184,111 B1	02/06/2001	Henley et al.			
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048	A49	6,194,722 B1	02/27/2001	Howe et al.			
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			U.S	. PATENT	DOCUM	ENTS			
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME			CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
OXO	A50	6,207,977	03/27/20	01 Augus	ito				<del> </del>
	A51	6,210,988 B1	04/03/20	01 Howe	et al.				
	A52	6,218,677 B1	04/17/20	01 Broek	aert				
	A53	6,232,138 B1	05/15/20	01 Fitzge	rald et al.				
	A54	6,235,567 B1	05/22/20	01 Huang	1		,		
	A55	6,251,755 B1	06/26/20	01 Furuka	wa et al.				
*	A56	6,261,929 B1	07/17/20	01 Gehrk	e et al.				· · · · · · · · · · · · · · · · · · ·
	A57	6,291,321 B1	09/18/20	01 Fitzge	rald				
	A58	6,313,016 B1	11/06/20	01 Kibbel	et al.				
	A59	6,323,108 B1	11/27/200	01 Kub et	al.				
	A60	6,335,546 B1	01/01/200	02 Tsuda	et al.				
	A61	6,350,993 B1	02/26/200	02 Chu et	al.				
	A62	6,368,733 B1	04/09/200	02 Nishina	aga .				
	A63	6,372,356 B1	04/16/200	2 Thornto	on et al.				
	A65	6,573,126	06/03/200	Cheng	et al.				
	A66	6,583,015	06/24/200	3 Fitzger	ald et al.				
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	A68	2002/0125497	09/12/200	2 Fitzger	ald	,			
210	A69	2003/0013323	01/16/200	3 Hammo	ond et al.				
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W/O	B1	0 587 520 ,	03/16/1994	EP				No	Yes
2)kg		0 683 522 A2	11/22/1995	EP				No	Yes
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**FORM PTO - 1449** ATTORNEY DOCKET NO.: ASC-022CPC1 INFORMATION DISCLOSURE APPLICANT(S): Wu et al. SERIAL NO.: 10/603,852 FILING DATE: June 25, 2003 **GROUP: 2811** FOREIGN PATENT DOCUMENTS EXAM. **DOCUMENT** DATE COUNTRY **CLASS** FILING **ABSTRACT ENGLISH** INIT. NUMBER CODE **CLASS** DATE ONLY LÂNG (Y/N) **B3** 0 828 296 03/11/1998 EP No Yes B4 2000-31491 01/28/2000 \_ JP No Yes **B5** WO 12/30/1998 PCT No Yes 98/59365 **B6** wo 10/21/1999 **PCT** No Yes 99/53539 6 WO 08/17/2000 PCT No Yes 00/48239 WO 12/27/2001 PCT No Yes 01/99169 OTHER ART, JOURNAL ARTICLES, ETC. OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) EXAM. INIT. C1 Armstrong, "Technology for SiGe Heterostructure-Based CMOS Devices," Thesis Submitted to the Massachusetts Institute of Technology Department of Electrical Engineering and Computer Science on June 30, 1999, pp. 1-154. C2 Barradas et al., "RBS analysis of MBE-grown SiGe/(001) Si heterostructures with thin, high Ge content SiGe channels for HMOS transistors," Modern Physics Letters B. (2001), abstract. C3 Borenstein et al., "A New Ultra-Hard Etch-Stop Layer for High Precision Micromachining," Proceedings of the 1999 12th IEEE International Conference on Micro Electro Mechanical Systems (MEMs), January 17-21, 1999, pps. 205-210. Bruel et al., "®SMART CUT: A Promising New SOI Material Technology," Proceedings of the 1995 IEEE International SOI Conference (October 1995), pp. 178-179.

C7 Chang et al., "Selective Etching of SiGe/Si Heterostructures," <u>Journal of the Electrochemical Society</u>, No. 1 (January 1991), pp. 202-204.

C8 Chen et al., "The Band Model and the Etching Mechanism of Silicon in Aqueous KOH," <u>Journal of the Electrochemical Society</u>, Vol. 142, No. 1 (January 1995), pp. 170-176.

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Bruel, "Silicon on Insulator Material Technology," Electronic Letters, Vol. 13, No. 14 (July 6, 1995),

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pp. 1201-1202.

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	C10	Cheng et al., "Relaxed Silicon-Germanium Electronic Materials, Vol. 30, No. 12 (2001)	on Insulator Substrate by Layer Transfer ), pp. L37-L39.	r," <u>Journal of</u>				
	C11	Feijoo et al., "Epitaxial Si-Ge Etch Stop Lay Etchback Silicon-on-Insulator," <u>Journal of E</u> 496.	vers with Ethylene Diamine Pyrocatechol Electronic Materials, Vol. 23, No. 6 (June	for Bonded and 1994), pps. 493-				
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	C14	Fitzgerald et al., "Totally Relaxed GexSi1-x on Si Substrates," <u>Applied Physics Letters</u> ,	Layers with Low Threading Dislocation D Vol. 59, No. 7 (August 12, 1991), pps. 8	Densities Grown 11-813.				
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	C17	Hackbarth et al., "Alternatives to thick MBE-No. 1-2 (July 2000), pp. 148-151.	grown relaxed SiGe buffers," <u>Thin Solid</u>	Films, Vol. 369,				
	C18	Huang et al., "High-quality strain-relaxed Sid substrate," <u>Applied Physics Letters</u> , Vol. 76,	Ge alloy grown on implanted silicon-on-in No. 19 (May 8, 2000), pp. 2680-2682.	sulator				
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	C21	Ismail, "Si/SiGe High-Speed Field-Effect Tra December 10, 1995.	nsistors," Electron Devices Meeting, Wa	shington D.C.,				
	C22	König et al., "Design Rules for n-Type SiGe (1997), pp. 1541-1547.	Hetero FETs," <u>Solid State Electronics,</u> Vo	ol. 41, No. 10				
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0	C24 LeGoues et al., "Relaxation of SiGe thin films grown on Si/SiO <sub>2</sub> substrates," <u>Applied Physics L</u> Vol. 75, No. 11 (June 1, 1994), pp. 7240-7246.							
		C25	Leitz et al., "Dislocation glide and blocking Applied Physics, Vol. 90, No. 6 (September	kinetics in compositionally graded SiGe/Si," <u>Journal of</u> er 15, 2001), pp. 2730-2736.				
		C26	Maiti et al., "Strained-Si heterostructure fie Technology, Vol. 13 (1998), pp. 1225-1246	eld effect transistors," <u>Semiconductor Science and</u> 6.				
		C27	Mazara, "Silicon-On-Insulator by Wafer Bo No. 1 (January 1991), pp. 341-347.	onding: A Review," <u>Journal of the Electrochemical Society</u> ,				
	,	C28	Mizuno et al., "Electron and Hole Mobility Enhancement in Strained-Si MOSFET's on SiGe-on- Insulator Substrates Fabricated by SIMOX Technology," <u>IEEE Electron Device Letters</u> , Vol. 21, No. 5 (May 2000), pp. 230-232.					
	***	C29	Narozny et al., "Si/SiGe Heterojunction Bip Molecular Beam Epitaxy," <u>IEEE IEDM</u> (198	olar Transistor with Graded GAP SiGe Base Made by 8), pp. 562-565.				
	_	C30	Powell et al., "New approach to the growth of low dislocation relaxed SiGe material," <u>Applied Physics Letters</u> , Vol. 64, No. 14 (April 4, 1994), pp. 1865-1858.					
		C31	Rim et al, "Fabrication and Analysis of Dee <u>Transactions on Electron Devices</u> , Vol. 47,	p Submicron Strained-Si N-MOSFET's," <u>IEEE</u> No. 7 (July 2000), pp. 1406-1415.				
		C32	Sadek et al., "Design of Si/SiGe Heterojund Transistors," IEEE Trans. Electron Devices	ction Complementary Metal-Oxide-Semiconductor , Vol. 43, No. 8 (August 1996), pp. 1224-1232.				
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		C35	Takagi et al., "On the Universality of Inversion Substrate Impurity Concentration," IEEE Transcription (December 1994), pp. 2357-2362.	on Layer Mobility in Si MOSFET's: Part I-Effects of ansactions on Electron Devices, Vol. 41, No. 12				
		C36	Ting et al., "Monolithic Integration of III-V Ma Conference on Silicon-Based Optoelectronic	aterials and Devices on Silicon," Part of the0 SPIE cs, San Jose, CA, (January 1999), pp. 19-28.				
	-	C37	Usami et al., "Spectroscopic study of Si-bas structure," Semiconductor Science and Tech	ed quantum wells with neighboring confinement nology, (1997), abstract.				
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	C41	Substrate Removal Techniques," Ele	As-Based Compliant Substrate Using Wafer ctronic Materials and Processing Research L , University Park, PA 16802, (1998), pp. 25-2	aboratory,	
240	C42	IBM Technical Disclosure Bulletin, Vo Structure for Strain Relaxation of Si-C	ol. 32, No. 8A, January 1990, "Optimal Growt Ge Layers on Si Substrates," pp. 330-331.	h Technique and	
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Sheet 1 of 3 **FORM PTO - 1449** ATTORNEY DOCKET NO.: ASC-022CPC1 SUPPLEMENTAL INFORMATION APPLICANT(S): Wu et al. DISCLOSURE STATEMENT SERIAL NO.: 10/603,852 FILING DATE: June 25, 2003 GROUP: 2811 U.S. PATENT DOCUMENTS EXAM. DOCUMENT DATE NAME **CLASS** SUB FILING DATE IF INIT. NUMBER **CLASS** APPROPRIATE FOREIGN PATENT DOCUMENTS EXAM. DOCUMENT DATE COUNTRY **CLASS** SUB **FILING** ABSTRACT ENGLISH INIT. NUMBER CODE CLASS DATE ONLY LANG (Y/N) OTHER ART, JOURNAL ARTICLES, ETC. OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) EXAM. INIT. Batterman, "Hillocks, Pits, and Etch Rate in Germanium Crystals," Journal of Applied Physics, Vol. 28, No. C43 11 (November, 1957), pp. 1236-1241. Bohg, "Ethylene Diamine-Pyrocatechol-Water Mixture Shows Etching Anomaly in Boron-Doped Silicon," C44 Journal of the Electrochemical Society, Vol. 118, No. 2 (February 1971), pp. 401-402. Desmond et al., "The Effects of Process-Induced Defects on the Chemical Selectivity of Highly Doped C45 Boron Etch Stops in Silicon," Journal of the Electrochemical Society, Vol. 141, No. 1 (January 1994), pp. 178-184. Ehman et al., "Morphology of Etch Pits on Germanium Studied by Optical and Scanning Electron C46 Microscopy," Journal of Applied Physics, Vol. 41, No. 7 (June 1970), pp. 2824-2827. Feijóo et al., "Etch Stop Barriers in Silicon Produced by Ion Implantation of Electrically Non-Active

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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	C51	Herzog et al., "X-Ray Investigation of Boro the Electrochemical Society, Vol. 131, No.	n- and Germanium-Doped Silicon Epitaxial Layers," <u>Journal of</u> 12 (December 1984), pp.2969-2974.					
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	C53	Hunt et al., "Selective Etch Stop by Stress C Technology Conference, (October 2-4, 1990	ompensation for Thin-Film BESOI," 1990 IEEE/SOI ), pp. 145-146.					
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	C66	Soderbarg, "Fabrication of BESOI Materials Using Implanted Nitrogen as an Effective Etch Stop Barrier," 1989 IEEE SOS/SOI Technology Conference, (October 3-5, 1989), pp. 64.
	C67	Sundaram et al., "Electrochemical etching of Silicon by Hydrazine," Journal of the Electrochemical Society, Vol. 140, No. 6 (June 1993), pp.1592-1597.
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